CLAIMS

1. A glow plug (1) comprising a pressure sensor (90) adapted to measure the internal pressure of the cylinder of an engine in which the glow plug (1) is accommodated, a body (10) adapted to be fixed to the engine, and a finger (20) in which a pre-heating electrode is accommodated, characterized in that the sensor (90) is connected to the body (10) by its upper surface and bears against the finger (20) such that the pressure exerted on the finger (20) compresses it against the body (10).

2. A glow plug (1) according to claim 1, characterized in that the sensor (90) bears on a spacer (80) which rests on the finger (20) and which is disposed in the body (10), without contact with the latter.

3. A glow plug (1) according to claim 2, characterized in that the spacer (80) is formed from a material of which its own vibration mode is beyond the bandwidth of the sensor (90).

4. A glow plug (1) according to claim 3, characterized in that the spacer (80) is of ceramic.

5. A glow plug (1) according to one of claims 1 to 4, characterized in that a nut (50) is screwed to the body (10) and compresses the sensor (90) so as to connect it to the body (10).

6. A glow plug (1) according to claim 5, characterized in that the screw thread of the nut (50) is formed on its outer periphery and cooperates with a screw thread formed on the inner surface of the side walls (110) of a cavity (100) in which the sensor (90) is accommodated.

7. A glow plug (1) according to one of claims 1 to 6, characterized in that the sensor (90) comprises a piezoelectric member (74) which is arranged between two contact members (72, 76) and is electrically insulated from the rest of the glow plug (1).

8. An internal combustion engine comprising at least one cylinder and one glow plug (1) according to one of the preceding claims, in which the pressure sensor (90) is adapted to measure the internal pressure of the cylinder in which the glow plug (1) is accommodated, and in which the body (10) is fixed to the engine.